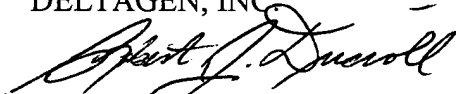


The foregoing amendments do not introduce new matter and are supported by the application as originally filed. Specifically, support for these amendments can be found in the specification at page 7, lines 9-14. Entry of the foregoing amendment is respectfully requested.

Favorable action on the merits is earnestly solicited.

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Respectfully submitted,  
DELTAGEN, INC.



Robert J. Driscoll, Reg. No. 47,536

*I certify that this amendment and enclosures are being deposited with the U. S. Postal Service with sufficient postage as first class mail in an envelope addressed to The Commissioner for Patents, Washington, D.C. 20231, on October 30, 2001.*

☐ *also transmitted by facsimile.*

  
\_\_\_\_\_  
Gayle D. Peterson

SEQ. ID. NO.:1

GAGACTGCAGCAGAATATGTAAAATCTCGACTCCCAGAGGCTCTTAAGC  
AGCACCTTCAGGATTATGAGAAGGACAAAGAAAACAGTGTTCTGACCTA  
CCAGACCATCCTCGAGCAGCAGATCTTGTCAATTGACCGGGAAATGCTG  
GAAAAGTTGACAGTCTCCTATGATGAAGCAGGCACAACGTGTTTGATCS  
CTCTACTCTCAGATAAAGACCTCACCGTGGCCAACGTTGGTGACTCTCG  
GGGAGTCTTGTGTGACAAAGATGGCAATGCCATCCCCTTGTCTCACGAT  
CACAAGCCTTACCAGCTGAAGGAAAGGAAGAGGATAAAGAGAGCTGGTG  
GGTTCATCAGCTTTAATGGCTCCTGGAGGGTCCAGGGAATCCTAGCCAT  
GTCTCGATCCCTGGGAGACTATCCACTGAAAAATCTCAACGTGGTCATC  
CCAGACCCAGACATCTTGACCTTTGACCTGGACAAGCTGCAGCCGGAGT  
TCATGATCTTGGCCTCAGATGGCCTGTGGGA~~AT~~GTGCTTTCAGCAATGAAG  
AAGCGGTTTCGATTCATCAAGGAGCGCTTGGATGAGCCCCACTTTGGGGC  
CAAAAGCATCGTCCTGCAGTCCTTTTACAGAGGCTGCCCTGACAACATC  
ACTGTCATGGTGGTGAAGTTCAGGAATAGTAGCAAAACAGAAGAGCACT  
GAACCCTGCCAGATCTCAGCTGCCCCAAACTAGAGGACTCTCAACATAC  
TGTTCTCTTCATGTAGTAAAAGGTGTGGGTATAATTAGGATCATGCGTC  
CCAACACAGAACCCCCCTTCCCTGATGGCCTTGAATCCCTTTGGAGTACT  
GAGCAGAGGGTTGGTTCCCTTGCTGACACCGCAGAGGCTGCTAAGTTTG  
TGTCCCCCAGCCCTTCTATCAGTGTTTGAACACATACGTAGGTAGCC  
ACAGATCCCACATATGAGGCAAAGGAAAGGCAGGCCATATGTTTTCCTT  
CTTAATAATGTACTTTT

SEQ. ID. NO.:2

ETAAEYVKSRLPEALKQHLQDYEKDKENSVLTYQTILEQQILSIDREML  
EKLTVSYDEAGTTCLIXLLSDKDLTVANVGDSRGVLCDDKGNAILPLSHD  
HKPYQLKERKRIKRAGGFISFNCSWRVQGILAMSRSLGDYPLKNLNVVI  
PDPDILTFDLQPEFMILASDGLWDAFSNNEAVRFIKERLDEPHFGA  
KSIVLQSFYRGCPDNITVMVVKFRNSSKTEEH

FIGURE 1

Underlined = deleted in targeting construct

**Bold** = sequence flanking Neo insert in targeting construct

GAGACTGCAGCAGAATATGTAAAATCTCGACTCCCAGAGGCTCTTAAGCAGCACCTTCAG  
GATTATGAGAAGGACAAAGAAAACAGTGTCTGACCTACCAGACCATCCTCGAGCAGCAG  
ATCTTGTC AATTGACCGGGAAATGCTGGAAAAGTTGACAGTCTCCTATGATGAAGCAGGC  
ACAACGTGTTTGATCSCTCTACTCTCAGATAAAGACCTCACCGTGGCCAACGTTGGTGAC  
TCTCGGGGAGTCTTGTGTGACAAAGATGGCAATGCCATCCCCTTGTCTCACGATCACAAG  
CCTTACCAGCTGAAGGAAAGGAAGAGGATAAAGAGAGCTG**GTGGGTTTCATCAGCTTTAAT**  
**GGCTCCTGGAGGGTCCAGGGAATCCTAGCCATGTCTCGATCCCTGGGAGACTATCCACTG**  
AAAAATCTCAACGTGGTCATCCCAGACCCAGACATCTTGACCTTTGACCTGGACAAGCTG  
CAGCCGGAGTTCATGATCTTGGCCTCAGATGGCCTGTGGGA ~~CTGCTTT~~ CAGCAATGAAGA  
AGCGGTTTCGATTTCATCAAGGAGCGCTTGGATGAGCCCCACTTTGGGGCCAAAAGCATCGT  
CCTGCAGTCCTTTTACAGAGGCTGCCCTGACAACATCACTGTCATGGTGGTGAAGTTCAG  
GAATAGTAGCAAAACAGAAGAGCACTGAACCCTGCCAGATCTCAGCTGCCCCAAACTAGA  
GGACTCTCAACATACTGTTCTCTTCATGTAGTAAAAGGTGTGGGTATAATTAGGATCATG  
CGTCCCAACACAGAACCCCTTCCCTGATGGCCTTGAATCCCTTTGGAGTACTGAGCAGA  
GGGTTGGTTCCTTGCTGACACCGCAGAGGCTGCTAAGTTTGTGTCCCCCAGCCCTTCT  
ATCAGTGTTTGAAACACATACGTAGGTAGCCACAGATCCCACATATGAGGCAAAGGAAAG  
GCAGGCCATATGTTTTCTTCTTAATAATGTACTTTT

FIGURE 2A